

Serial No.: 10/501,530
Art Unit: 2621

PD020002
Customer No. 24498

Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) Method for storing video signals at a first rate and reading the stored video signals at a second rate; comprising the steps of:
 - compressing video signals in a first buffer memory;
 - storing the compressed video signals from said first buffer memory in a random access memory; operated synchronously during writing and reading;
 - reading said compressed video signals from said random access memory into a first second buffer memory at said a first rate;
 - reading said compressed video signals from said first second buffer at said second rate such that said compressed video signals are decompressed.
 - wherein the step of compressing video signals includes:
 - dividing video signals to be stored each into a plural number N of parallel data streams each carrying said inputted video signal, whereby said dividing comprises delaying said parallel data streams with respect to each other by one pixel period; and
 - time-compressing said plural number of parallel data streams to form a respective plural number of parallel time-compressed data streams,
 - whereby each of said time-compressed data streams is obtained by sampling every N-th pixel from the respective parallel data stream, said sampling being carried out simultaneously for said parallel data streams at said first rate;
 - wherein the step of storing said compressed video signals from said first buffer memory in said random access memory includes:
 - writing said time-compressed data streams to said random access memory during a write portion of a predetermined write-read cycle of said random access memory;
 - whereby each of said time-compressed data streams takes up only a part of said predetermined write-read cycle;

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wherein the step of reading said compressed video signals from said random access memory into said second buffer memory at said first rate includes:

reading out said time-compressed data streams from said random access memory in a read portion of said write-read cycle and feeding them to said second buffer memory;

and wherein the step of reading said compressed video signals from said second buffer memory at said second rate includes:

multiplexing said decompressed data streams.

2. (Currently amended) The method according to Claim 1, wherein the write-read cycle of said random access memory a write period and at least one read period.

3. (Currently amended) The method according to Claim 2, wherein the write-read cycle of said random access memory comprises a write period and three read periods.

4. (Currently amended) The method according to Claim 2, wherein the write or read periods in each case contain, prior to the writing or reading, respectively, control time segments for setting said the random access memory for writing or reading, respectively, and, after the write or read periods, respectively, control time segments for terminating the writing or reading, respectively.

5. (Currently amended) The method according to Claim 4, wherein said the random access memory is furthermore refreshed in said the time segments.

6. (Cancelled)

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7. (Cancelled)

8. (Previously presented) The method according to Claim 1, wherein the video signals are divided pixel by pixel.

9. (Cancelled)